PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: LEE, Young-Pil NOTIFICATION OF TRANSMITTAL OF The cheonghwa Building, 1571-18 Seocho-dong, Seocho-gu THE INTERNATIONAL SEARCH REPORT AND Seoul 137-874, Republic of Korea THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1) Date of mailing (day/month/year) 24 DECEMBER 2004 (24.12.2004) Applicant's or agent's file reference FOR FURTHER ACTION See paragraphs 1 and 4 below SH-21483-PCT International filing date International application No. (day/month/year) PCT/KR2004/002198 01 SEPTEMBER 2004 (01.09.2004) Applicant SAMSUNG ELECTRONICS CO., LTD. et al The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. 3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months(or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Facsimile No. 82-42-472-7140

Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

COMMISSIONER

Authorized officer

Telephone No. 82-42-481-5281

Name and mailing address of the TSA/KR

PATENT COOPERATION TREATY

From the

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INTERNATIONAL SEARCHING AUT	HURITY	_			
To:		TD CT			
LEE, Young-Pil			11 0 11		
The cheonghwa Building, 1571-18 Sec Seoul 137-874, Republic of Korea	ocho-dong, Seocho-gu	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
			(PCT Rule 43bis.1)		
			-		
		Date of mailing (day/month/year) 24 DECEMBER 2004 (24.12.2004)			
Applicant's or agent's file reference		FOR FURTHER ACTION			
SH-21483-PCT		See paragraph 2 below			
International application No.	International filing date	(day/month/year)	Priority date(day/month/year)		
PCT/KR2004/002198	01 SEPTEMBER	2004 (01.09.2004)	06 SEPTEMBER 2003 (06.09.2003)		
International Patent Classification (IPC)	or both national classifica	tion and IPC			
IPC7 G11B 7/26		•	·		
Applicant					
SAMSUNG ELECTRONICS C	O., LID. et al		• • • •		
1. This opinion contains indications rela		ns:			
Box No. I Basis of the opi	pinion				
Box No. II Priority	·				
l	nent of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of unity					
	ed statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; s and explanations supporting such statement				
Box No. VI Certain docum	ents cited				
Box No. VII Certain defects in the international application					
Box No. VIII Certain observa	I Certain observations on the international application				
			·		
2. FURTHER ACTION					
If a demand for international preliming International Preliminary Examining					
International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.					
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.					
3. For further details, see notes to Form PCT/ISA/220.					

Name and mailing address of the ISA/KR



Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

KIM, Yong Woong

Telephone No. 82-42-481-5698



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/002198

Box No. I Basis of this opinion				
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.				
This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).				
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
a. type of material				
a sequence listing table(s) related to the sequence listing				
b. format of material				
in wirtten format				
in computer readable form				
c. time of filing/furnishing				
contained in the international application as filed.				
filed together with the international application in computer readable form.				
furnished subsequently to this Authority for the purposes of search.				
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additioanl copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
4. Additional comments:				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/002198

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Novelty (N)	Claims	1-23	YES
	Claims		NO NO
Inventive step (IS)	Claims	3-11, 14-23	YES
	Claims	1-2, 12-13	NO
Industrial applicability (IA)	Claims	1-23	YES
	Claims		NO

2. Citations and explanations:

Reference is made to the following documents:

D1: US 2001-0016301 A1 (JATHAN D. EDWARDS) 23 August 2001 D2: JP 2002-245687 A (RICOH CO., LTD.) 30 August 2002

1. Novelty and Inventive Step

The subject matter of claims 1-23 of the present invention is a recorded master for manufacturing an information storage medium and a method of manufacturing the master, which includes a master substrate, a heat absorption layer, a separation layer, and a dielectric layer.

D1 discloses a method of manufacturing a metal matrix suitable for use in the manufacture of optical discs in which a master plate is used which comprises a recording double layer of a synthetic resin in which each layer comprises a laser light-absorbing dye.

D2 discloses the manufacturing method for the original optical disk master plate comprising a process of forming a hydrophilic high polymer materia; layer which is not mixed with photoresist on a glass substrate.

The subject matter of claims 1, 2, 12 and 13 and that of the prior art document D1 are considered to be similar in that both relate to a recorded master for manufacturing an information storage medium. Said claims differ from said document in that said claims include a separation layer formed of a photoresist. However, said difference is clearly shown in D2. Accordingly, it would be obvious to a person skilled in the art to derive the invention of claims 1, 2, 12 and 13 from the prior art D1 and D2.

Therefore, the subject matter of claims 1, 2, 12 and 13 is considered to be novel but to lack an inventive step (PCT Article 33(2)-33(3)).

2. Industrial Applicability

Claims 1-23 of the present invention meet the criteria set out in PCT Article 33(4) because they are directed to a recorded master for manufacturing an information storage medium and a method of manufacturing the master. Therefore, the subject matter of claims 1-23 is considered to be industrially applicable.

PATENT COOPERATION TREATY

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference SH-21483-PCT	FOR FURTHER see Form PCT/ISA/220 ACTION as well as, where applicable, item 5 belo					
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)				
PCT/KR2004/002198	01 SEPTEMBER 2004 (01.09.2004)					
Applicant		(000000)				
	T TOTAL A					
SAMSUNG ELECTRONICS CO	., LID. et al					
This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.						
This international search report consists of a to	otal of 2 sheets.					
It is also accompanied by a cop	y of each prior art document cited in this report	i.				
 Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 						
The international search this Authority (Rule 23.	was carried out on the basis of a translation of $1(b)$).	the international application furnished to				
b. With regard to any nucleotide a	and/or amino acid sequence disclosed in the in	nternational application, see Box No. I.				
2. Certain claims were found un	searchable (See Box No. II)					
3. Unity of invention is lacking (See Box No. III)						
4. With regard to the title,						
X the text is approved as submitted	X the text is approved as submitted by the applicant.					
the text has been established by this Authority to read as follows:						
·		•				
5. With regard to the abstract,						
the text is approved as submitted	d by the applicant.					
	coording to Rule 38.2(b), by this Authority as it					
may, within one month from the	e date of mailing of this international search rep	port, submit comments to this Authority.				
6. With regard to the drawings,						
a. the figure of the drawings to be publ		<u>- </u>				
X as suggested by the applicant.						
because the applicant failer						
because this figure better c						
b. none of the figure is to be published with the abstract.						

INTERNATIONAL SEARCH REPORT

International application No. PCT/KR2004/002198

		PCT/KR2004/002198		
A. CLASSIFICATION OF SUBJECT MATTER				
IPC7 G11B 7/26				
According to International Patent Classification (IPC) or to both nati	ional classification and IPC			
B. FIELDS SEARCHED		** · · · · · · · · · · · · · · · · · ·		
Minimum documentation searched (classification system followed b	y classification symbols)			
G11B 7/26 G11B 7/24 G11B 5/84				
Documentation searched other than minimum documentation to the	extent that such documents are in	ncluded in the fields searched		
Electronic data base consulted during the intertnational search (name WPI, PAJ "master, stamper, heat, temperature, photoresist, alloy, vol.		able, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category* Citation of document, with indication, where ap	propriate, of the relevant passage	Relevant to claim No.		
Y US 2001-0016301 A1 (JATHAN D. EDWARDS) 2 See the whole document	23 August 2001	1, 2, 12, 13		
Y JP 2002-245687 A (RICOH CO., LTD.) 30 August See the whole document	JP 2002-245687 A (RICOH CO., LTD.) 30 August 2002 See the whole document			
Y JP 2001-250279 A (SONY CORPORATION) 14 S See the whole document	JP 2001-250279 A (SONY CORPORATION) 14 September 2001 See the whole document			
Y US 5,214,632 A (U.S. PHILIPS CORP.) 25 May 19 See the whole document	US 5,214,632 A (U.S. PHILIPS CORP.) 25 May 1993 See the whole document			
A US 2002-0182546 A1 (MASAHITO KONISHI et a See the whole document	US 2002-0182546 A1 (MASAHITO KONISHI et al.) 05 December 2002 See the whole document			
Further documents are listed in the continuation of Box C.	See patent family	annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family				
Date of the actual completion of the international search 23 DECEMBER 2004 (23.12.2004) Date of mailing of the international search report 24 DECEMBER 2004 (24.12.2004)				

Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140

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